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Thomas J. Christofk, Air Pollution Control Officer

MEMORANDUM

TO: Board of Directors, Placer County Air Pollution Control District

FROM: John Finnell, Senior Air Pollution Control Engineer

AGENDA DATE: April 10, 2003

SUBJECT: Adoption of Rule 242, Stationary Internal Combustion Engines
(Action/Public Hearing)

Action Requested:

- 1) Conduct a Public Hearing regarding the proposed adoption of Rule 242, Stationary Internal Combustion Engines; and
- 2) Approve Resolution #03-05, thereby adopting Rule 242, Stationary Internal Combustion Engines

Background:

The proposed rule is included as a Nitrogen Oxide (NO_x) control measure in the Sacramento Area Regional Ozone Attainment Plan, which was adopted by the Board on December 20, 1994. VOC emissions and Oxides of Nitrogen (NO_x) emissions are precursors to the photochemical formation of Ozone. The Attainment Plan was adopted in response to the 1990 Amendments to the Federal Clean Air Act (CAA), which required areas designated "serious" for Ozone by the United States Environmental Protection Agency (USEPA), to submit a State Implementation Plan (SIP) revision.

The proposed rule was drafted using Yolo-Solano District Rule 232, amended in September 2001, as a guide for emission limits. Other rules in nearby districts were considered, including Sacramento, El Dorado, and Tehama County. Staff believes that emission limitations in the proposed rule are achievable for most existing sources. Most new engines will be compliant with these limits.

The District presently has a number of sources in this category. Many are permitted for emergency power and will be exempt from the NO_x emission limits of this rule. These include emergency generators, fire protection pumps, flood control pumps and ski lift backup engines.

Discussion:

The proposed Rule applies to engines rated at greater than 50 hp, located anywhere in Placer County. Engines that will be exempt are those used for emergency power, and engines used less than 200 hours per year. Also exempt are some special use engines, including agricultural uses.

Standards include emission limits on NOx and CO, based on parts/million, by volume, in the exhaust gas stream. Standards vary according to four categories of engines. They are: spark-ignited rich burn engines, spark-ignited lean burn engines and diesel engines. Lean burn NOx limits for engines rated greater than 100 hp are more strict than those rated at 100 hp or less.

Compliance date for existing engines is 90 days after date of adoption of this rule. Engines requiring retrofit to meet the standards of this rule must file Authority to Construct (A/C) within 90 days after the adoption of this rule. Retrofit engines must be compliant with this rule no later than July 1, 2004. Requirements for removing non-compliant engines from service or replacing them with electric motors are also included in the rule.

Rule 242, as proposed, requires performance testing every 24 months.

Fiscal Impacts:

Cost to any source that needs to retrofit or replace existing units could be significant.

Other sources, whose engines are compliant will incur added operating costs to perform biennial performance testing.

California Environmental Quality Act:

The District staff has determined that the adoption of this rule is categorically exempt from the California Environmental Quality Act (CEQA) requirements per the CEQA Guidelines, Section 15307, Actions by Regulatory Agencies for Protection of Natural Resources.

Public Outreach:

Public notice of the April hearing was published in the newspaper on March 10, 2003. The draft rule and public notice was also made available on the District website.

The proposed rule and negative declaration were provided to interested parties, the Air Resources Board (ARB) and the U.S. Environmental Protection Agency EPA.

An advisory of this hearing and proposed rule adoption was mailed to all permitted sources that have stationary engines.

Recommendation:

Adoption of this control measure by 2004 is required in order for Placer County Air Pollution Control District (District) to be compliant with the SIP requirements. District staff recommend the approval of Resolution #03-05, thereby adopting the Rule 242, Stationary Internal Combustion Engines.

Attachment #1: Resolution #03-05 Thereby Adopting Rule 242, Stationary Internal Combustion Engines; Exhibit 1, Rule 242, Stationary Internal Combustion Engines

Attachment #2 Staff Report: Rule 242, Stationary Internal Combustion Engines

ATTACHMENT 1

ATTACHMENT 2

EXHIBIT I